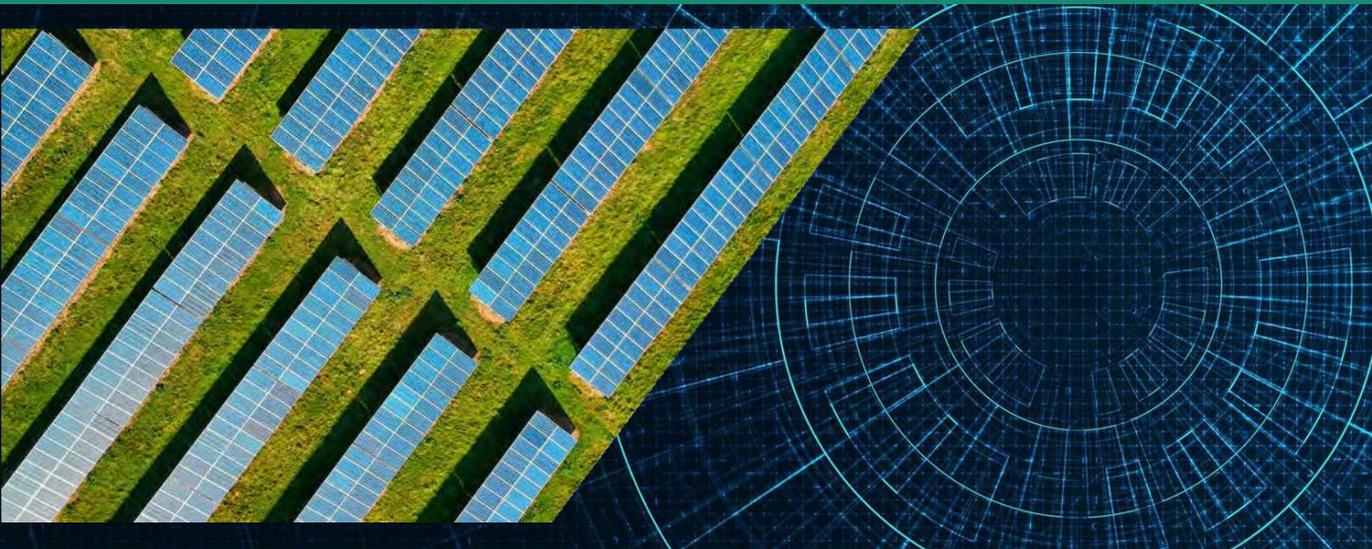# SIBYL SOLAR.

REAL TIME AND PREDICTIVE DIAGNOSTICS FOR PHOTOVOLTAIC PERFORMANCE OPTIMIZATION AND PRODUCTION FORECASTING.

Sibyl Solar is the top-class solution to optimise the Production Efficiency of solar plants, it is built merging together outstanding professional Sensors from Sunto and state-of-the-art Algorithms from Data Reply .

SIBYL SOLAR MAIN FEATURES

PLANT MONITORING

POWER GENERATION FORECASTING

OPERATIONS OPTIMIZATION

sunto.
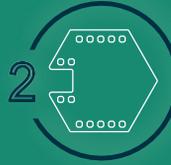### State-of-the-art Professional Solar Technologies

By dramatically boosting the fine-grained localization of system failures, inefficiencies and production drops with unmatched, pin-point detail, Sybil Solar allows to maximize energy production, reduce O&M costs, and to increase profitability for investors, owners, and managers of PV plants.
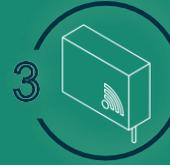
HARDWARE MAIN FEATURES

1 ALL-OUT IRRADIATION SENSOR

CaptPro is a patented breakthrough device that measures all components of the solar radiation (GNI, DNI, DHI, GHI, BHI, GTI) without sun trackers. It detects the solar irradiation falling on fixed or tracked PV panels, spectral-weighed on the panels technology.

2 ALL-IN PANEL SENSOR

APS is an original clamp-on instrument that, without interrupting the string continuity, analyses failures up to a panel-level through real-time measurements of the PV panel string current, temperature, and tracked PV panel tilt.

3 WIRELESS DOCKING STATION

WDS is a compact sun-fueled platform providing power, communication, networking, and IOT capabilities to monitoring sensors. Each WDS can act as a repeater and network node, thus delivering enlarged area monitoring.

SOFTWARE MAIN FEATURES

1 POWER GENERATION FORECASTING → MACHINE LEARNING ALGORITHMS

Based on the most advanced Machine Learning and Deep Learning algorithms in order to produce accurate predictions. The engine supports several parameters customization to better handle each case and meet requirements & expectations.

2 MONITORING DASHBOARDS

It comes with a set of interactive reports to monitor forecasting performances and other metrics. Sibyl Solar comes with a set of customizable dashboards for performance monitoring and in-depth analysis: trend analysis, KPI extraction, user-based views.

3 OPERATIONS OPTIMIZATION

Optimization algorithm to support commissioning and operations activities. Empowered by:

MEGAQUBO

www.reply.com/data-reply/en/megaqubo
YOUR SHORTCUT TO QUANTUM OPTIMIZATION PROJECTS

Eager to know more about SIBYL SOLAR: **ASK OUR EXPERT**

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Data Reply is the Reply group company that offers excellence services on Big Data, Artificial Intelligence and Quantum Computing. We operate across a broad spectrum of industries and business functions to bring complete data driven solutions enabling new business models and data-driven strategies through Analytics, Machine Learning and Intelligent Process Automation.

www.datareply.it

REPLY DATA

Sunto is a registered trademark of Alitec that develops State-of-the-art Professional Solar Technologies thanks to a world-class team of quantum optics physicists, mechanical and electronic engineers and computer scientists.
Our mission is to deliver outstanding solar measurements and tracking technologies pushing forward photovoltaic production efficiency.

www.sunto.technology

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